

## APPENDIX A

### Client Side Programs

5 The "Client Module" are executed by the caller and support any communications to and from the caller.

Program "vegacomm.cpp", "vegacomm2.cpp", and "vegacomm.h" are compiled together to make up the main caller side application.

Together, all of code segments listed under the C++/Header Files table make up  
10 "vscp.dll". Executing program "vscp.dsw" commences compilation of "vscp.dll".

Java files are used to build the Java applet 24 of FIG. 3B. It is the main module of the client application. All the direct user interaction and user interface are implemented in these files.

Resource files contain the user interface and multimedia object definitions.

15 The COM files are used as an interface between Java Applet and the \*.dll files.

The Netscape Plugin files allow control the java applet to control the sound card. Netscape plugin files for Netscape serves the same role that the COM module does for MS Internet Explorer.

File "strtp.dll" supports RTP communication and voice encoding/decoding  
20 functions between the caller and any destination device (for example, PC to phone communications) or any remote caller (for example, PC to PC communications).

Java files		
File	Description	Comment
AnswerDialog.java	Yes/No message dialog class	
BrowserType.java	class for detecting surrounding browser type	
ContactInfo.java	Contains personal information and location information of Client.	
DialDialog.java	Dialing Dialog class	
DialDialogEvent.java	Dialing Dialog event class	
MySocket.java	socket utility class	

MyUtil.java	utility class for frequently used methods	
VegaCommEvent.java	VegaCommEvent class	
VegaCommWrapper.java	browser-independent class for internal vscp methods	
Web2PhoneApplet.java	main Java Applet class which communicates with Browsers and vscp engine (plugin or COM)	
Web2PhoneHelper.java	Front-end class for Web2PhoneApplet class	

Resource Files		
File	Description	Comment
vscp.rc	vscp dll resource template, contains version information and resource data	
VegaComm.rgs	resource file for registering VegaComm COM class to Windows registry	
busy.wav	busy sound	Microsoft PCM 8000 Hz, 8 bit, mono format
Dialtone.wav	dial tone sound	Microsoft PCM 8000 Hz, 8 bit, mono format
Ringback.wav	ring sound	Microsoft PCM 8000 Hz, 8 bit, mono format
Tone0.wav	button 0 sound	Microsoft PCM 8000 Hz, 8 bit, mono format
Tone1.wav	button 1 sound	Microsoft PCM 8000 Hz, 8 bit, mono format

Tone2.wav	button 2 sound	Microsoft PCM 8000 Hz, 8 bit, mono format
Tone3.wav	button 3 sound	Microsoft PCM 8000 Hz, 8 bit, mono format
Tone4.wav	button 4 sound	Microsoft PCM 8000 Hz, 8 bit, mono format
Tone5.wav	button 5 sound	Microsoft PCM 8000 Hz, 8 bit, mono format
Tone6.wav	button 6 sound	Microsoft PCM 8000 Hz, 8 bit, mono format
Tone7.wav	button 7 sound	Microsoft PCM 8000 Hz, 8 bit, mono format
Tone8.wav	button 8 sound	Microsoft PCM 8000 Hz, 8 bit, mono format
Tone9.wav	button 9 sound	Microsoft PCM 8000 Hz, 8 bit, mono format
Tonestar.wav	button star(*) sound	Microsoft PCM 8000 Hz, 8 bit, mono format
Tonepnd.wav	button pound(#) sound	Microsoft PCM 8000 Hz, 8 bit, mono format

Microsoft COM Wrapper Class(Internet Explorer only)		
File	Description	Comment
_IvegaCommEvent.java	IvegaCommEvent wrapper for MS Java	generated from vscp.dll by Microsoft Visual J++ COM Wrapper
IvegaComm.java	IvegaComm wrapper for MS Java	generated from vscp.dll
TagCodecConstants.java	Codec constants definition class	generated from vscp.dll
TagStatusConstants.java	Status constants definition class	generated from vscp.dll

VegaComm.java	VegaComm wrapper for MS Java	generated from vscp.dll
---------------	---------------------------------	-------------------------

Microsoft COM(Common Object Model) related files for Internet Explorer		
File	Description	Comment
vscp.idl	IDL(Interface Definition Language) file which defines the COM interfaces exposed to external Java classes	
VscpCP.h	C stub file for COM Connection Point interface	generated from vscp.idl
vscp.h	C stub file for COM interface	generated from vscp.idl
vscp_i.c	C source file which has declarations for IID(Interface ID) and CLSID(Class ID)	generated from vscp.idl
vscp_p.c	C source file which contains proxy stub code for Distributed COM	generated from vscp.idl not using.

Netscape Plugin related files for Netscape Communicator		
File	Description	Comment
Npvsctp.cpp	C language implementation file for basic Netscape Plugin methods, VegaPlugin methods, VegaCommEvent methods	uses COM internally
npwin.cpp	Win32 interface for Netscape Plugin	from Netscape PluginSDK source
stubs.c	stub files for Netscape LiveConnect(Java to Plugin communication)	

	technology	
VegaPlugin.java	JRI(Java Raw Interface) declaration file for Netscape Plugin methods	
VegaCommEvent.java	JRI(Java Raw Interface) declaration file for status update events	
Dialpad_us_VegaCommEvent.c	Cross-language Interface file for status update events methods which calls external java classes	generated from VegaCommEvent.java
Dialpad_us_VegaCommEvent.h	Header file for status update events methods which calls external java classes	generated from VegaCommEvent.java
Dialpad_us_VegaPlugin.c	Cross-language Interface file for Netscape Plugin methods which is called by external java classes	generated from VegaPlugin.java
Dialpad_us_VegaPlugin.h	Header file for Netscape Plugin methods which is called by external java classes	generated from VegaPlugin.java
SinkObj.h	JRI<->COM communication class(CsinkObj)	

C++ Compiler(Microsoft Visual C++ 6.0) related files		
File	Description	Comment
vscp.def	declares DLL export functions for use with COM and Netscape Plugin	

vscp.clw	C language class information file	MSVC internal
vscp.dsp	Project File information	
vscp.dsw	Project Workspace information	
stdafx.cpp	files for standard AFX features	MSVC internal

C++/Header Files		
File	Description	Comment
VegaComm.cpp	Implementation file for key features(CvegaComm)	main file
VegaComm2.cpp	Implementation file for key features(CvegaComm)	
VegaComm.h	header file for VegaComm.cpp, VegaComm2.cpp	
WaveCtrl.cpp	Manipulates Microphone and Speaker hardware devices(CwaveCtrl)	Recording & Playing
WaveCtrl.h	header file for WaveCtrl.cpp	
stvscp.cpp	Frames/Deframes VSCP packets	
stvscp.h	VSCP header files	
vscp.cpp	dll main file	
vscp.h	dll main header file	

External Dependencies		
File	Description	Comment
stnet.h	network API functions	
stnet.dll	network API functions dll	
sterror.h	stnet error definition	
strtp.h	RTP header file	
strtp.dll	RTP DLL	Supports RTP communication and voice

		encoding/decoding functions.
stg711.h	G.711, G.723 codec DLL header file	
tsd2.dll	G.711, G.723 codec DLL	

### Web Server Programs

The "VEGA Server Source Files" are executed by the web server.

VEGA Server Source Files		
File	Description	Comment
Child.c	Child process main routine and thread routine which handles each call	
h323stub.c	H.323 stack calling routines for VEGA server	
Sendvscp.c	VSCP packets sending routines	
Utils.c	Miscellaneous routines	
Vserver.c	Main routine which creates child processes and routes incoming calls to child processes	
stdb.c	Performs user authentication by looking up the DB	
Stdebug.c	Debugging/Logging facility	

### H.323 Programs

The programs of the "H.323 Stack Packages" are executed by web server 20 and support any H.323 level communications between the web server and the ITSP gateway.

- 5 The programs of the H.323 Stack Packages are used to support an H.323 protocol based communication.

H.323 Stack Packages		
Package	Description	Comment
Stasn	ASN.1 facilities using OSS ASN.1 package	
sth245	H.245 abstraction layer (Session management)	
sth323m	H.323 Multi-session (Toplevel API)	
Stnet	TCP/IP abstraction layer	
stq931	Q.931 and H.225.0 abstraction layer (Call signaling)	
Stras	RAS abstraction layer (Registration, Admission and Status)	
Strtp	RTP abstraction layer (Real-Time Protocol)	
Stwin32	Win32 functions ported on Solaris 2.x	

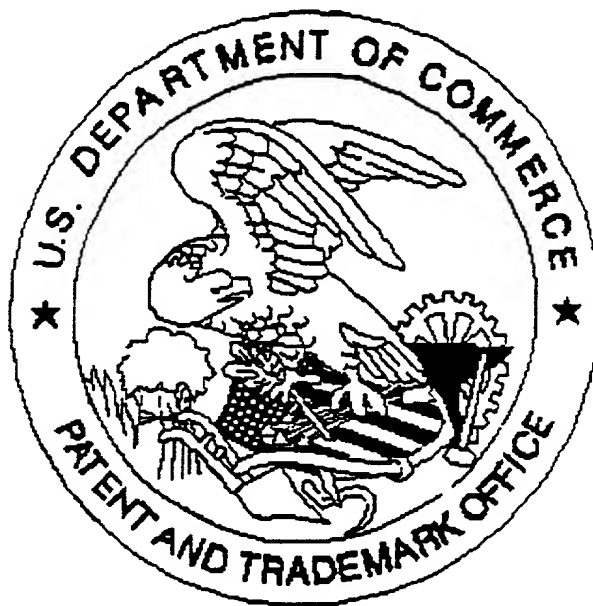


## APPENDIX B

5 The computer program listing Appendix B is attached hereto.

Exhibit B is attached hereto.

United States Patent & Trademark Office  
Office of Initial Patent Examination -- Scanning Division



Application deficiencies found during scanning:

☐ Page(s) \_\_\_\_\_ of \_\_\_\_\_ were not present  
for scanning. (Document title)

☐ Page(s) \_\_\_\_\_ of \_\_\_\_\_ were not present  
for scanning. (Document title)

☒ Scanned copy is best available.

*Drawings*